

**APPENDIX A
PROPOSED RULE CHANGES**

Chapter 1 of Title 47 of the Code of Federal Regulations is proposed to be amended as follows:

PART 1 – Application Requirements and Procedures

The authority citation for part 1 continues to read as follows:

AUTHORITY: 47 U.S.C. 151, 154(i), 154(j), 155, 225, 303(r), 309, and 325(e).

1. Section 1.934 is amended by redesignating paragraph (d)(3) as (d)(4), and adding a new paragraph (d)(3) to read as follows:

§ 1.934 Defective applications and dismissal.

* * * * *

(d) * * *

(3) It includes a list of amateur station vanity call signs in order of preference and requests, as the first preferred call sign, the same call sign requested on another application filed on the same day by the same applicant.

* * * * *

Part 2 – Frequency Allocations And Radio Treaty Matters; General Rules And Regulations

The authority citation for part 2 continues to read as follows:

AUTHORITY: 47 U.S.C 154, 302a, 303, and 336, unless otherwise noted.

1. Section 2.106 is amended by revising United States footnote US267 to read as follows:

§ 2.106 Table of Frequency Allocation.

* * * * *

US267 In the band 902-928 MHz, amateur radio stations shall transmit on the frequency segments 902.0-902.4, 902.6-904.3, 904.7-925.3, 925.7-927.3, and 927.7-928.0 MHz within the States of Colorado and Wyoming, bounded by the area of latitude 39 deg. N. to 42 deg. N. and longitude 103 deg. W. to 108 deg. W.

* * * * *

2. Section 2.815 is amended by removing paragraphs (d) and (e), and revising paragraphs (b) and (c) to read as follows:

§ 2.815 External radio frequency power amplifiers.

* * * * *

(b) After April 27, 1978, no person shall manufacture, sell or lease, offer for sale or lease (including advertising for sale or lease), or import, ship, or distribute for the purpose of selling or leasing or offering for sale or lease, any external radio frequency power amplifier unless the amplifier has been approved in accordance with subpart J of this part and other relevant parts of this chapter. This proscription shall not apply to the marketing to an amateur radio operator of an external radio frequency power amplifier provided the amplifier is for use at an amateur radio station and the requirements of Sections 97.315 and 97.317 of this chapter are met.

(c) No person shall manufacture, sell or lease, offer for sale or lease (including advertising for sale or lease) or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any external radio frequency power amplifier unless the amplifier has received a grant of certification in accordance with subpart J of this part and other relevant parts of this chapter. No more than 10 external radio frequency power amplifiers may be constructed for evaluation purposes in preparation for the submission of an application for a grant of certification. This proscription shall not apply to the marketing to a licensed amateur radio operator of an external radio frequency power amplifier provided the amplifier is for use at an amateur radio station and the requirements of Sections 97.315 and 97.317 of this chapter are met.

3. Section 2.1060 is amended by removing paragraph (c), redesignating paragraph (d) as paragraph (c) and revising paragraph (c) to read as follows:

§ 2.1060 Equipment for use in the amateur radio service.

* * * * *

(c) Certification of external radio frequency power amplifiers may be denied when denial would prevent the use of these amplifiers in services other than the Amateur Radio Service.

Part 97 - Amateur Radio Service

The authority citation for part 97 continues to read as follows:

AUTHORITY: 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply 48 Stat. 1064-1068, 1081-1105, as amended; 47 U.S.C. 151-155, 301-609, unless otherwise noted.

1. Section 97.3 is amended by removing and reserving paragraph (a)(19) and revising paragraph (c)(2) to read as follows:

§ 97.3 Definitions.

* * * * *

(c) ***

(2) Data. Telemetry, telecommand and computer communications emissions having designators with A, C, D, F, G, H, J or R as the first symbol; 1 as the second symbol; D as the third symbol; emissions A1C and F2C having an occupied bandwidth of 500 Hz or less, and J2D. Only a digital code of a type specifically authorized in this part may be transmitted.

* * * * *

2. Section 97.19 is amended by revising paragraphs (c)(3) and (d)(1) to read as follows:

§ 97.19 Application for a vanity call sign.

* * * * *

(c) * * *

(3) Except for an applicant who is the spouse, child, grandchild, stepchild, parent, grandparent, step-parent, brother, sister, stepbrother, stepsister, aunt, uncle, niece, nephew, or in-law, and except for an applicant who is a club station license trustee acting with a statement of consent signed by the person *ante mortem* or the written consent of at least one relative, as listed above, of a person now deceased, the call sign shown on the license of a person now deceased is not available to the vanity call sign system for 2 years following the person's death, or for 2 years following the expiration of the license grant, whichever is sooner.

(d) ***

(1) The applicant must request that the call sign shown on the license grant be vacated and provide a list of up to 25 call signs in order of preference. In the event that an applicant requests the same call sign as their first preferred call sign in more than one application on the same receipt day, only the first processable application received by the Commission will be considered.

* * * * *

3. Section 97.111 is amended by redesignating paragraphs (a)(2) through (a)(4) as (a)(3) through (a)(5), respectively, and adding a new paragraph (a)(2) to read as follows:

§ 97.111 Authorized transmissions.

(a) * * *

(2) Transmissions necessary to meet essential communication needs and to facilitate relief actions.

* * * * *

4. Section 97.113 is amended by revising paragraph (e) to read as follows:

§ 97.113 Prohibited transmissions.

* * * * *

(e) No station shall retransmit programs or signals emanating from any type of radio station other than an amateur station, except propagation and weather forecast information intended for use by the general public and originated from United States Government stations, and communications, including incidental music, originating on United States Government frequencies between a manned spacecraft and its associated Earth stations. Prior approval for manned spacecraft communications retransmissions must be obtained from the National Aeronautics and Space

Administration. Such retransmissions must be for the exclusive use of amateur radio operators. Propagation, weather forecasts, and manned spacecraft communications retransmissions may not be conducted on a regular basis, but only occasionally, as an incident of normal amateur radio communications.

* * * * *

5. Section 97.115 is amended by revising paragraph (b)(2), redesignating paragraph (c) as paragraph (d), and adding a new paragraph (c), to read as follows:

§ 97.115 Third party communications.

* * * * *

(b) * * *

(2) The third party is not a prior amateur service licensee whose license was revoked or not renewed after hearing and re-licensing has not taken place; suspended for less than the balance of the license term and the suspension is still in effect; suspended for the balance of the license term and re-licensing has not taken place; or surrendered for cancellation following notice of revocation, suspension or monetary forfeiture proceedings. The third party may not be the subject of a cease and desist order which relates to amateur service operation and which is still in effect.

(c) No station may transmit third party communications while being automatically controlled except a station transmitting a RTTY or data emission.

* * * * *

6. Section 97.201 is amended by revising paragraph (b) to read as follows:

§ 97.201 Auxiliary station.

* * * * *

(b) An auxiliary station may transmit only on the 2 m and shorter wavelength bands, except the 144.0-144.5 MHz, 145.8-146.0 MHz, 219-220 MHz, 222.00-222.15 MHz, 431-433 MHz, and 435-438 MHz segments.

* * * * *

7. Section 97.207 is amended by revising paragraph (g) and removing paragraphs (h) and (i) to read as follows:

§ 97.207 Space station.

* * * * *

(g) The license grantee of each space station must file the following notification with the International Bureau, FCC, Washington, DC 20554.

(1) A pre-space notification within 30 days after launch vehicle determination, but no later than 90 days before integration of the space station into the launch vehicle. This notification shall include an electronic file containing the information required by Appendix 4 of the ITU Radio Regulations in the format consistent with ITU requirements. With that notification, the license grantee of the space station shall include a description of the design and operational strategies the space station will use to mitigate orbital debris, including a casualty risk assessment if planned post-mission disposal involves atmospheric re-entry of the spacecraft. The description must include an analysis demonstrating that debris generation will not result from the conversion of chemical, pressure, or kinetic energy sources on board the spacecraft into energy that fragments the spacecraft. This demonstration should address whether stored energy will be removed at the spacecraft's end-of-life, by depleting residual fuel and leaving all fuel line valves open, venting any pressurized system, leaving all batteries in a permanent discharge state, and removing any remaining source of stored energy, or through other equivalent procedures. If any material item described in the notification changes before launch, a replacement pre-space notification shall be filed with the International Bureau. The replacement notification shall be filed no later than 90 days before integration of the space station into the launch vehicle.

(2) An in-space station notification no later than 7 days following initiation of space station transmissions. This notification must update the information contained in the pre-space notification.

(3) A post-space station notification no later than 3 months after termination of the space station transmissions. When termination of transmissions is ordered by the FCC, the notification is required no later than 24 hours after termination of transmissions.

8. Section 97.301 is amended by revising paragraphs (b), (c), (d), and (e) to read as follows:

§ 97.301 Authorized frequency bands.

* * * * *

(b) * * *

Wavelength band	ITU Region 1	ITU Region 2	ITU Region 3	Sharing requirements See § 97.303, Paragraph:
--------------------	-----------------	-----------------	-----------------	---

* * * * *

<u>HF</u>	<u>MHz</u>	<u>MHz</u>	<u>MHz</u>	
80 m	3.50-3.725	3.50-3.725	3.50-3.725	(a)
75 m	3.725-3.800	3.725-4.000	3.725-3.900	(a)

* * * * *

(c) * * *

Wavelength band	ITU Region 1	ITU Region 2	ITU Region 3	Sharing requirements See § 97.303, Paragraph:
* * * * *				
<u>HF</u>	<u>MHz</u>	<u>MHz</u>	<u>MHz</u>	
80 m	3.525-3.725	3.525-3.725	3.525-3.725	(a)
75 m	3.750-3.800	3.750-4.000	3.750-3.900	(a)
* * * * *				
15 m	21.025-21.200	21.025-21.200	21.025-21.200	
-Do-	21.225-21.450	21.225-21.450	21.225-21.450	

* * * * *

(d) * * *

Wavelength band	ITU Region 1	ITU Region 2	ITU Region 3	Sharing requirements See § 97.303, Paragraph:
* * * * *				
<u>HF</u>	<u>MHz</u>	<u>MHz</u>	<u>MHz</u>	
80 m	3.525-3.725	3.525-3.725	3.525-3.725	(a)
75 m	---	3.800-4.000	3.800-3.900	(a)
40 m	7.025-7.125	7.025-7.125	7.025-7.125	(a)
-Do-	---	7.175-7.300	---	(a)
* * * * *				
15 m	21.025-21.200	21.025-21.200	21.025-21.200	
-Do-	21.275-21.45	21.275-21.45	21.275-21.45	

* * * * *

(e) * * *

Wavelength band	ITU Region 1	ITU Region 2	ITU Region 3	Sharing requirements See § 97.303, Paragraph:
<u>HF</u>	<u>MHz</u>	<u>MHz</u>	<u>MHz</u>	
80 m	3.525-3.725	3.525-3.725	3.525-3.725	(a)
40 m	7.025-7.075	7.025-7.125	7.025-7.075	(a)
15 m	21.025-21.200	21.025-21.200	21.025-21.200	
10m	28.0-28.5	28.0-28.5	28.0-28.5	

* * * * *

9. Section 97.303 is amended by revising paragraph (g)(1) to read as follows:

§ 97.303 Frequency sharing requirements.

* * * * *

(g) * * *

(1) In the States of Colorado and Wyoming, bounded by the area of latitude 39 deg. N. to 42 deg. N. and longitude 103 deg. W. to 108 deg. W., an amateur station may transmit on the frequency segments 902.0-902.4, 902.6-904.3, 904.7-925.3, 925.7-927.3, and 927.7-928.0 MHz. This band is allocated on a secondary basis to the amateur service subject to not causing harmful interference to, and not receiving any interference protection from, the operation of industrial, scientific and medical devices, automatic vehicle monitoring systems, or Government stations authorized in this band.

* * * * *

10. Section 97.305 is amended by revising paragraph (c) to read as follows:

§ 97.305 Authorized emission types.

* * * * *

(c) * * *

Wavelength	Frequencies band	Emission types authorized	Standards See § 97.307(f), Paragraph:
* * * * *			
HF			
* * * * *			
40 m	7.000-7.075 MHz	RTTY, data	(3), (9)
-Do-	7.075-7.100 MHz	Phone, image	(1), (2), (9), (11)
-Do-	7.100-7.125 MHz	RTTY, data	(1), (9)
-Do-	7.125-7.300 MHz	Phone, image	(1), (2)
* * * * *			
VHF			
* * * * *			
1.25 m	219-220 MHz	Data	(13)
-Do-	222-225 MHz	RTTY, data, test	
		MCW, phone, SS, image.....	(2), (6), (8)
* * * * *			

11. Section 97.313 is amended by revising paragraph (c) to read as follows:

§ 97.313 Transmitter power standards.

* * * * *

(c) No station may transmit with a transmitter power exceeding 200 W PEP:

(1) On the 10.10-10.15 MHz segment;

(2) When the control operator is a Novice Class operator or a Technician Class operator who has received credit for proficiency in telegraphy in accordance with the international requirements; or

* * * * *

12. Section 97.315 is amended by revising paragraphs (a), (b) introductory text, (b)(1) through (b)(3), and (c) to read as follows:

§ 97.315 Certification of external RF power amplifiers.

(a) Any external RF power amplifier (see Section 2.815 of the FCC Rules) manufactured or imported for use at an amateur radio station must be certificated for use in the amateur service in accordance with Subpart J of Part 2 of the FCC Rules. No amplifier capable of operation below 144 MHz may be constructed or modified by a non-amateur service licensee without a grant of certification from the FCC.

(b) The requirement of paragraph (a) does not apply if one or more of the following conditions are met:

(1) The amplifier is constructed or modified by an amateur radio operator for use at an amateur station.

(2) The amplifier was manufactured before April 28, 1978, and has been issued a marketing waiver by the FCC, or the amplifier was purchased before April 28, 1978, by an amateur radio operator for use at that operator's station.

(3) The amplifier is sold to an amateur radio operator or to a dealer, the amplifier is purchased in used condition by a dealer, or the amplifier is sold to an amateur radio operator for use at that operator's station.

(c) Any external RF power amplifier appearing in the Commission's database as certificated for use in the amateur service may be marketed for use in the amateur service.

13. Section 97.317 is amended by revising paragraph (a) introductory text, paragraphs (a)(1), (a)(2), and paragraph (b) to read as follows:

§ 97.317 Standards for certification of external RF power amplifiers.

(a) To receive a grant of certification, the amplifier must:

(1) Satisfy the spurious emission standards of Sec. 97.307(d) or (e) of this part, as applicable, when the amplifier is operated at the lesser of 1.5 kW PEP or its full output power and when the amplifier is placed in the "standby" or "off" positions while connected to the transmitter.

(2) Not be capable of amplifying the input RF power (driving signal) by more than 15 dB gain. Gain is defined as the ratio of the input RF power to the output RF power of the amplifier where both power measurements are expressed in peak envelope power or mean power.

(b) Certification may be denied when the Commission determines the amplifier can be used in services other than the Amateur Radio Service.

14. Section 97.401 is amended by removing and reserving paragraph (a), removing paragraph (b), redesignating paragraph (c) as paragraph (a), and revising paragraph (a) to read as follows:

§ 97.401 Operation during a disaster.

(a) A station in, or within 92.6 km of, Alaska may transmit emissions J3E and R3E on the channel at 5.1675 MHz for emergency communications. The channel must be shared with stations licensed in the Alaska private fixed service. The transmitter power must not exceed 150 W. A station in, or within 92.6 km of, Alaska may transmit communications for tests and training drills necessary to ensure the establishment, operation, and maintenance of emergency communication systems.

* * * * *

15. Section 97.407 is amended by revising paragraph (b) to read as follows:

§ 97.407 Radio amateur civil emergency service.

(a) ***

(b) The frequency bands, segments, and emissions authorized to the control operator are available to stations transmitting communications in RACES on a shared basis with the amateur service. In the event of an emergency which necessitates the invoking of the President's War Emergency Powers under the provisions of Section 706 of the Communications Act of 1934, as amended, 47 U.S.C. 606, RACES stations and amateur stations participating in RACES may only transmit on the frequency segments authorized pursuant to part 214 of this chapter.

* * * * *

16 Section 97.505 is amended by adding paragraph (a)(10) to read as follows:

§ 97.505 Element credit.

(a) * * *

(10) An expired FCC-issued Technician Class license document and a CSCE indicating the examinee has passed a telegraphy examination:

Element 1.

* * * * *

17. Section 97.509 is amended by revising paragraphs (a) and (m) to read as follows:

§ 97.509 Administering VE requirements.

(a) Each examination for an amateur operator license must be administered by a team of at least 3 VEs at an examination session coordinated by a VEC. The number of examinees at the session may be limited.

* * * * *

(m) After the administration of a successful examination for an amateur service operator license, the administering VEs or the VE session manager must submit the application document to the coordinating VEC according to the coordinating VEC's instructions.

18. Section 97.519 is amended by revising paragraph (b) to read as follows:

§ 97.519 Coordinating examination sessions.

* * * * *

(b) At the completion of each examination session, the coordinating VEC must collect applicant information and test results from the administering VEs. The coordinating VEC must:

* * * * *

APPENDIX B
Commenters**RM-10313**

RICHARD C. BAUM, KE2K
KENNETH RICHARDS
RODGER ALEXANDER
SCOTT HONAKER
ANTHONY BUROKAS
BRIAN BADGER
MARTIN S. WILCOXSON
RONALD A. PFEIFFER
DAVID P SCHORNAK
ROBERT KOERNER
STEVEN JAMES ROBESON
GREG PERALTA
DONALD YOUNG
BOB BAILEY KAØMR
KENWOOD COMMUNICATIONS CORP.
ROBERT F. ACINAPURA
GARY P. STANDORF
TIMOTHY P. DUGAN, JR.
W. LEE MCVEY, P.E. - W6EM
LEONARD J UMINA
ROBERT FULLER

RON KARGER AB8DT
ROBERT E. BRUNINGA
RICHARD A. MERHAR
RICHARD ILLMAN
PHILIP KARRAS
ROY LEWIS KE4SLL
HANS J. MILLER
JOHN MCAULEY
KEN ROGERS
GARY A. COOPER, N7ZHG
JAMES RICK SOHL
MATTHEW SADLER
STEVEN J ROBESON
THOMAS E. WALSH / KB7EFZ
ROBERT MITILIERI - N9EF
NICKOLAUS E. LEGGETT
DOPRAN S. PLATT
RICHARD M. WINTER K7JKY
WILLIAM J. GALLAGHER
KENWOOD COMMUNICATIONS-REPLY

RM-10352

PAUL S. COURSON
ART FIGHTLING
WILLIAM R. TIPPETT
BRIGGS AND TIPPETT
SCOTT JONES
HENRY PERRAS
CHARLES T. RAUCH
G. J. CHOUINARD
MIKE COWART
JOSEPH T. SUBICH
M. ROBIN CRITCHELL
KEN CARUSO
SCOTT D HUDLER
DAVID HUMBERTSON
WARREN H ZIEGLER
JEFFREY A. MAASS
JIM MILLER
OWEN MITCHELL
RALPH L. DUVALL
KURT B. PAUER
JEREMY L. MULLER
PAUL S. COURSON
DANIEL LOVE
WILLIAM F. SANTELMANN, JR. N1AU
HOWARD L. LESTER
EDWARD L. STUCKEY

DONALD W. STRIBLING KH6DX
DONALD L. KEROUAC
JAMES E. COOK
EUGENE SKOPAL
JOSEPH E LONG
BARRY A. BOOTHE, W9UCW
MELVIN LEHMANN
DARRYL G. LINDBERG
JAMES H. YOUNG
PAUL S. COURSON
DAVID M. CALHOUN SR.
DAVID J. TARRANT
CHARLES HANSEN
WILLIAM T. HOMEWOOD
THOMAS J. MACKIE
JOHN R. WELTY
ROGER D JOHNSON
MICHAEL TESSMER
JAMES PFISTER
RICHARD L. WILDER K3DI
CHARLES E HANSEN
RONALD MCCLAIN
KRIS MRAZ
JOSHUA L. HOUK
KENNETH N. BOLIN
JAMES P. MICCOLIS, N2EY

WILLIAM C. WHITE
ANDREW J. KETNER
JAMES D. SPAULDING
ERIC SCACE K3NA
ROBERT A. WALLS
ROBERT TILLER
GEORGE W. HIPPISEY
S. SCHIEVING JR. W0HG
DWIGHT G. BOSSELMAN
FREDERICK HANDSCOMBE
ROBERT S. MORRIS
JOSEPH T. SUBICH
JEFF BENSON - N8CC
KENNETH RAMIREZ
LEO DRESCHER
WALLACE C. ECKLES
JAMES A. JAKUBIN
LEE A. WARD
MIKE SAWYER
JAMES V. MINOR IV
ALAN J. CUNNINGHAM
ERIC VAN HORN
MARVIN D. TAYLOR
GARY G. HEMBREE
RAYMOND A. COFFEY
ERNEST J. ZINGLEMAN
B. J. PITTMAN
EUGENE WALTER
HAROLD HERRING
YVES A. FEDER
TOMAS HOOD, NW7US
JOHN S. MATTHEWS
GARY MCCAUGHEY
ROBERT D. EDMONDSON
GARY A. BREED
MICHAEL D. BROWN
LOUIS CRUZ
JUAN ARENCIBIA
BENNY H. BADDLEY
JULIO PEREZ
CLARK L. STEWART
JULIO RIPOLL, WD4JR
RANDALL K. MARTIN K0EU
OWEN MITCHELL KB5XE
JAMES S. IDELSON
JOSEPH H. REISERT
JULIO HNERIQUEZ, AD4Z
JESUS HERNANDEZ
CARL HERRERA
STEVE LANYI
BILL JOHNSON
JOHN SPENCER
ALEX W. BONNER
JAMES D. JORGENSEN
VINCENT CORTINA

ANTHONY B. (BERNIE) MCCLENNY, JR
W3UR
THOMAS A. BAUGH
BRADLEY R. ANBRO, N9EN
DAVE PASCOE KM3T
WILLIAM S. JAMES
LAWRENCE R. TAFT
THOMAS E. KUEHL
JIM FUNK
NICHOLAS C. WISLOCKI
ROBERT E. BRUHNS
STEVEN R. DANIEL
NORMAN DOUGLAS GRANT
STEPHEN D. BOLIA
WILLIAM A. PRESTON
ROBERT CALLAHAN
NICHOLAS A. FERRO
JOHN D. ALLYN
MAHLON R. HAUNSCHILD
MICHAEL J. WAGNER
A. PIGHTLING
JESS LEBOW K8LJQ
PHIL A. LEVIN
SPENCER M. LAZAR
LARRY BURKE
KIERAN J. O'HAGAN
RICHARD SAEGER
KENNETH V. MILLER
WILLIAM EWING
LLOYD CHASTANT
JOHN C. ABSALOM
SCOTT FREEBERG
WILLIAM E. CHAMBERS
RALPH W. DAME
THOMAS CATHEY
PAUL COURSON
TODD D. BIGELOW
TIMOTHY P. HAAKE
WELDON FIELDSWE
KIM PIGHTLING
RON RUBIN
JAMES JOHNSON
GARRY R. SHAPIRO
GLEN ALLEN
MICHAEL H. LAJOIE
PAUL GOODMAN
STEPHEN ICKES
WILLIAM R. MCNEIL N4JI
JAMES J. REISERT
JOHN LYLES
ERIC MARTIN
MARK SPECK
WILLIAM B. SMITH
STEVEN TUTHILL
BARBARA SWEET
JOSEPH CRO N3IBX

GEORGE M. HALL
RICHARD M. TAVAN
PAUL D. SERGI
EDWIN S. REDKEY
MARC TAPLEE
ARLAN L. BOWEN
LARRY ECKENRODE
ANTHONY A. DEBIASI
PRESTON T. SMITH
IRA P. STOLER
CLIFTON T. TRICE
JAMES E. FRUSHER
DONALD B. CHESTER
ROBERT N. TELLEFSEN
PAUL H. NEWBERRY, JR.
JOHN KAUFMANN
HERBERT R. SWEET
JAMES T. GRANGER, W4TMM
ERIC L. ZUST
JAMES L. KINSER
RICHARD E. MOSER
ROBERT CRANFORD
ARTHUR PREWITT
HARDY LANDSKOV
FRITZ REUNING
PAUL W. MAIKRANZ
MICHAEL D. LONNEKE
ROBERT DOHERTY
BRYCE A. CARR
JIM WILLIAMS
JEFFREY A. MAASS
MAYLON J. HARVEY
WILLIAM S. MCCONNELL, N9US
R. CARL LUETZELSCHWAB
ROBERT S. WRUBLE
GORDON LEE MUISE
PETER H. BRIGGS
THOMAS L. VISELLI, JR.
JEFFREY A. MAASS
PAUL WOMBLE
JOE M. OWEN
THOMAS M. GREENWAY
FERALD F. LOFSTEAD
FRED A. CRESCE
ROBERT LUKASZEWSKI
DAVID A. PRUETT
ROBERT L. GILL
WALTER P. BERNADYN
MIKE CRABTREE
RALPH MCCLINTOCK
GREGORY J. CARTER
LESLIE H. MURPHY
WILLIAM E. KENNAMER
RONALD ST. LAURENT
GEORGE R. OLIVA, JR.
MARTIN L. ROCKFIELD, JR.

JOHN W. DAY
JOHN A. SCOTT
CHARLES W. SHAW
STEPHEN P. HART
LAYFIELD L. LAMB
JIM HENDERSON
HENRY G. ELWELL, JR.
ARCHIBALD C. DOTY, JR.
MICHAEL DINELLI
JOE BLACKWELL
JERRY W. ROSALIUS
DOUGLAS R. MADDOX
WILLIAM L. DAWSON
HAROLD PRICE SMITH, JR.
JULIUS B. CHILLER
W. MIKE WOOD
RODNEY R. INGRAM
DENNIS MOTSCHENBACHER
THOMAS WELTZER
RICHARD K. KARLQUIST
STEPHEN S. REICHLYN
CHARLES MORRISON - N1RR
MICHAEL MRAZ N6MZ
STEVE WOODRUFF
THOMAS A. RUSSELL N4KG
ROGER BOROWSKI
LAWRENCE. H. MOLITOR
ROBERT D. PETERSON
JAMES H. MCCOOK
TOM G. WHITESIDE
THEODORE J. COHEN
WILLEM A. ANGENENT
DAVID KENNEDY
ANTHONY KAZMAKITES
WILLIAM G. MCDOWELL
RON POMATTO
THOMAS A. MCKEE
KEN J. CLAERBOUT
JIM MONAHAN
DAVID S. MCCALLUM
LUTHER J. CAMP
STAN SEIFFERT
WAYNE A. STRAHL
MARK A. SHELTON
RICK STURDIVANT
JOSEPH T. SUBICH
WILLIAM B. FAGEOL
D. BRYAN VAUGHAN
JOHN GODWIN
PHILIP LAZAR
JOHN R. SILVA
THOMAS G. VAVRA
KENNETH S. CANNADAY
DAVID N. HAUPT
MICHAEL C. FULCHER
DALE L. KALCHERT

MARSHALL G EMM
THOMAS F GIELLA
RICHARD J. CASEY
WILLIAM GIOIA
MARK MAY
DANIEL R. SIMMONDS
FRANK O. LONG
DAVE HOTTELL
JOHN W. BROSNAHAN
GARY BAYLESS
DARRYL J. KELLY
KEVIN D. ADAM
MARK ANTHONY
PETER HUTTER
WILLIAM R. TIPPETT W4ZV
PATRICK M. BARKEY
RONALD J. GORSKI
ROY C. KOEPPE
CHARLES COMERFORD
MICHAEL C. TOPE
NICHOLAS J. STANZIOLA
ROBERT A. JOHNSON
W. TIPPETT
ISAAC R. PRICE
RONALD C. BEDNARZ
ALFRED C. ROUSSEAU
HOWARD M. KLEIN
ALAN BROWN
DANIEL H. HOGAN
DOUGLAS W. ATTAWAY
ROBERT G. FLORY
WALTER A. WESSEL, JR.
FLOYD A. REYNOLDS
PETER J. MALVASI
MICHAEL STOVER
PHILIP CAMERA
BILLY W. COX JR.
CHARLES M. DUNLAP, JR.
ALLEN BARDWELL
G.E. TUCKER, W5VU
DAVID E. SINCLAIR
HARRY WILLIAMS
SAMUEL A. LESLIE
H. ALLEN ROBBINS
WILLARD H. SITTON
STEPHEN K. STONE
TIMOTHY N. COLBERT
MICHAEL C. POOLE
RICHARD N. BODINE
ELLIOT V. BLAIZE JR.
MICHAEL J. MCGIRR
CHARLES L. DIETZ
JAMES WOLF
PATRICIA COLVIN
GARY R. NICHOLS
JERRY L. BARTACHEK SR.

DAVID L. THOMPSON
PAUL M. ELLIOTT, JR.
JOHN H. SHANNON
TERRY HATTON
JERRY R. SPRAY
TIMOTHY H. HEATON
JAMES STAHL
MICHAEL CHRISTIE
MICHAEL ST. ANGELO
TERRY A. POSEY, PE
JESS COLVIN
R. K. QUIN
DONALD STRIBLING KH6DX
FERNANDO VIGUERAS
LUCIANO MARTINEZ
KEN ADAMS, K5KA
NEIL SMITH
VIC KELLER
GUSTAV W. HELLMAN
LARRY SCHIMELPFENIG
WILLIAM GAINES
ROBERT KING
ROBERT DIXON
JOHN D. HENSLEY
JOHN R. BINGHAM
BRADFORD E. REHM, KV5V
OSVALDO PLA
MIGUEL MAZQUIARAN
STEVEN J. LITWINS
JOSE M. CHAVEZ
DEAN W. SHOWALTER
DAVID A. RAYMOND
EDWARD J. CHANCE K3JJG
GARY D. ELLIOTT
PETER G. SMITH
PATRICK L. COLLINS
STEPHEN BERTSCH
OSVALDO MARTINEZ
EUGENIO A. FLORES
FREDY GOMEZ
GREGORIO MENDEZ
JESUS HERNANDEZ
MIGUEL ESPINOSA
DUANE L. MITCHELL
WILLIAM H. SMITH
PETER MARKHAM WA4HEI
PAUL KICIAK N2PK
CYRIL H. HALBACH
JOHN BURGIO, W2JB
JOHN E. GERLACH
LESLIE M. NUHN
CHARLES W. CLARKE
GREG WILSON
CHARLES T. RAUCH
MARK F. ZEGEL
GEORGE W. BRIGGS

GEORGE A. GUERIN
SILVERIO L. REMIGIO
EARL W. CUNNINGHAM
ELWOOD C. VEREGGE
THEODORE DEMOPOULOS
JULIUS GOSTEL JR.
ED GILLILAND
P. FRED MUNZENMAYER
FR. JOHN HILL
RANDY C. SCHAAF
ED GILLILAND
DENNIS A. HOMERICK
ALAN VAN BUREN
JOHN BREWER
ROGER J. PARSONS
JOHN P. LARSON
PAUL D. SCHRADER N4XM
ROBERT LEO
AUSTIN REGAL
CLEO M. CHRISTENSEN
EDWARD C. GRAY
FRANK A. LYNCH, W4FAL
GEORGE E. TAFT
JOSEPH N. VERAS
JAMES P. BOWMAN
JON ZAIMES
DICK WOLF - N6FF
ROBERT W. WILSON
ROBERT GARRETT
JAMES WILSON
JOHN B. VICKERS
MARK D. MCINTYRE SR.
MARK C. KILLMON
HENRY S. KASTELBERG
DONALD B. HALL
KENNETH H. MOORE, JRF
DENNIS EGAN, NB1B
ROBERT E. HELMS
PHILIP J. GOETZ
JIM MONAHAN, K1PX
R. DEAN STRAW
JOHN B. MITCHELL
BRYON VEAL
RICHARD WOLF - N6FF
JOHN ROBERT ESHLEMAN, W4DR
CHARLES E. DEWEY, JR., W0CD
BILL BROWN K0UK
DAVE BOWKER
HAROLD TATE N8FXH
GLENN L. ROESER
STEVE P. GECEWICZ
WALTER E. WILSON, JR.
LAWRENCE T. HARRISON, JR.
VICTOR H. GADZIK
CHARLES R. SCHWARTZ
CURTIS BLEVINS

YURI BLANAROVICH
JOEL B. HOAG
JOSEPH A. GAGLIARDI
JAMES L. JARVIS
WILLIAM HOISINGTON
JOHN GODWIN
RICHARD B. WILBORG
JOHN TERLESKI
MICHAEL F. GILMER
DAVID R. PATTON
G. LLOYD RIGG
MICHAEL D. SAWYER
WILLIAM P. TURNEY
KENNETH G. BYERS, JR.
ROBERT MARCH
JEFFREY L. KELLER
BILL RAMSEY
PETER PELLACK
FREDERICK MAAS
DOUGLAS C. WALLER
JOHN G. HIPPI
JARI JUSSILA
WILLIAM R. TIPPETT
VAUGHN WORTH
ART PIGHTLING
GALE A. STEWARD
J. EDWARD MUNS
FREDERICK L. CAPOSSELA
BARRY GROSS
THOMAS FRANKLIN GIELLA
DUANE A. CALVIN
ED GILLILAND
MILTON KENT MILLER
BILL KLERONOMOS
JOSEPH H. WILKOWSKI K8FC
RONALD L. FEUTZ
WILLIAM G. RINKER
PATRIC D. WINTHEISER
JOHN O. BAUMGARTEN
ERIC BALL
PHILIP E. GALASSO
MARION L. JACKSON, JR.
DONALD A. KARVONEN
NICHOLAS D. RICCI
KENNETH J. FATTMANN
GARY J. FERDINAND W2CS
WILLIAM HOHNSTEIN
GRIFFITH L. GORDON
DANIEL J. FLAIG
DAVE BOWKER
PAUL T. OBERT
PHILIP W. FINKLE
HOWARD HOYT N4AF
ANDREW BLANK
JAY RUTHERFORD
RANDALL A. THOMPSON

THOMAS W. PARKINSON
HUGH S. PHILLIPS
COLLIN DVORAK
JOHN C. HOLLIMAN
DAVID J. SCHMOCKER
JAMES L. JARVIS
JOHN E. GERCKEN, AA9UF
TOM WHITTEN
JOHN GETZ
RON GRANDMAISON

JOHN C. GOLLER
KEN WARREN
JEFFREY T. BRIGGS
CHARLES G. SUMMERS, JR.
STEVE IRELAND
KEITH P. JILLINGS
JOHN P. ROGERS
GRAHAM BRETT ALEXANDER
GREG SMITH

RM-10353

QCWA
DAVE BOWKER
FR. JOHN HILL - KC4OKW
HAROLD TATE N8FXH
JEFFREY L. GOODNUFF
EDWIN R. LAPPI

STEVEN BRYANT
COLLIN DVORAK
THOMAS M. LEHNERT
KELLY, SAM R.
KENNETH ALAN

RM-10354

JAY JENKINS
MICHAEL H. LAJOIE
WILLIAM R. TIPPETT
PHYLLISAN WEST
HAROLD TATE N8FXH
JAMES M. MAY
CHARLES G. SUMMERS, JR.
HUGH S. PHILLIPS
JOHN MARTIN - W4KYL
MIKE MELLO, N5MJ
ALLEN K. LOVETT
ALAN J. WORMSER
PAUL CARPENTER
DENNIS DUFFIN
COLLIN DVORAK
DR. DAVID M. COLBURN, KD4E

WILLIAM R. EATON
MICHAEL J. LYNESS, AF4LQ
DREW R. MCCARSKY-KB2SEO
STEVE DRAGER W3UXZ
HERBERT W. RAEMSCH
WILLIAM D. PRICE
PAUL GATEWOOD
MARK RICHARDS
KELLY, SAM R.
JEFFREY THAU
ALLAN KRUGER
BREN DORECK
JOHN GETZ
RICHARD BRITTINGHAM
HANS BRAKOB K0HB

RM-10355

DAVID W. DUKE
JET PROPULSION LABORATORY ARC
MATTHEW J. GILBERT
SCOTT H. LINDSEY-STEVENSON
HAROLD TATE N8FXH
JOHN L. GAFFORD
JAMES M. MAY

JOHN C. HOLLIMAN
KEITH E. WYATT
JOHN CHAMBERLAIN, AC5CV,
WACO AMATEUR TELEVISION SOCIETY
Dr. DAVID M. COLBURN, KD4E
JOHN COOPER JR.

RM-10412

DON SCHELLHARDT, ESQUIRE
WILLIAM C. WHITE/KD7BFX
NICKOLAUS E. LEGGETT REPLY
COMMENTS
SCOTT D. HERNALSTEEN
THOMAS P. CURRIE
NEIL J. NITZBERG
WILLIS WHATLEY
MARTIN S. WILCOXSON
GEORGE J. MCCOUCH
THOMAS P. CURRIE
BRENNAN PRICE
POHM, MARC A
NICKOLAUS E. LEGGETT
DANNY BLACKBURN
DAVID A. MERRIWEATHER
KENNETH MEYER
RICH EYRE - REC NETWORKS - K7REC
JAY D. BERRINGER
KEN MEYER
RICKEY D. PIERCE
CHRISTOPHER J. CIESLAK
HOWARD STICKLEY
KERRY STEFFENS WØON
RANDALL WINCHESTER
STEVE SILVERWOOD
HANS BRAKOB, K0HB
DAVID N. KAMP
ED BODNAR
MARK RICHARDS
JOHN P. FLYNN
CARL R. STEVENSON WK3C
CHARLES L. JOHNSON, WA7JOS
RICK REICHERT, KF4LM
JOE NEIL
J.W. WHITE K1EXE
JOHN GETZ
VINCENT DIMALTA WB3LJQ
PETER K. MURRICANE

DONALD L. COLLINSON
PATRICK W. TICE
LARRY L. LEDLOW, JR. N1TX
DANIEL MARLOW
KURT A. LUDWIG
FRED C. KELLY III
PATRICK E. FREEMAN
PHILLIP D. BRITTENHAM
W. LEE MCVEY
M. CLAY JACKSON
FRANCES J. BRADLEY
CHRIS KARPINSKY
TERRY L. NIXON WB0VQP
ROBERT BOEHMER
MICHAEL MAIORANA
JOHN J. SCHMITZ, P.E.
BRIAN H. DAVIS
DANA H. MYERS
RICHARD G. THOMASSON
PAUL GENE HADLEY
TIMOTHY M. TAPIO AG4QE
THOMAS A. GEIS
ALEXANDER KRAUSKA
RONALD D. ROSSI
DAVID M. REYNOLDS
JOHN ELLIS, NP2B
KEN COUGHLIN
VINCENT MASTROGIOVANNI KK5RZ
CHARLES P. ADKINS
BARRY SCHIEFERSTEIN
JOHN WAGNER
JACK BECKMAN
ROBIN RUMBOLT
MARK K. HUNTINGTON KA2MHY
CHRISTOPHER J. CIESLAK
FRANK A. LYNCH
CARL SWANSON
JOHN DEWEY KA9CAR

RM-10413

WILLIAM R. TIPPETT W4ZV REPLY
COMMENTS
TIMOTHY J. FIEBIG
JOHN S. RIPPEY REPLY
JAMES HERSHEY
STEPHEN L. WOLFCALF
RICHARD FOWLER
ALAN J. WORMSER, N5LF
MICHAEL J. LYNESS
MICHAEL DINELLI
MARSHALL G. EMM
BRANDON WHITE, NB5E

DONALD B. CHESTER
HOWARD PARRISH, JR., W4IEO
LEE P. CALLACI
WILLIAM R. TIPPETT
PHILIP E. GALASSO
JAMES E. COOK
SCOTT D. HERNALSTEEN
BRIAN P. BURKE
JIM EVANS
PHILIP LAZAR, K9PL
JEFFREY T. BRIGGS, K1ZM
NEIL J. NITZBERG

HANS BRAKOB, K0HB REPLY COMMENT
TIMOTHY J. FIEBIG
STEVEN FISHER
JAMES P. MICCOLIS N2EY
LARRY D. CLARK
WAYNE C. KLUSMAN
FREDERICK C. GANTZER
MARK SPATNY KD6JLS
GEORGE J. MCCOUCH
EDWARD P. MURPHY
MICHAEL J. BUCKLAEW
GREGORY J. BEAT
JAY D. BERRINGER
ADC TELECOMM AMATEURS K0RT
JOHN S. RIPPEY, W3ULS
ROGER C. ROSE
TOM MILLER
JAMES R. MATHERLY
JOHN M. MARCH
EDWARD T. TANTON
JOHN W. HUGHES
KARL J. ZUK
JOHN L. BARBER, N5JB
NICKOLAUS E. LEGGETT
MARK FARR N9MIU
C. K. BRAKOB
JAMES L. BURKE, WT4Q
DONALD YOUNG
HANS BRAKOB, K0HB
RICHARD L. TANNEHILL
THOMAS F. GIELLA
JAMES E. BROMLEY
MARK RICHARDS
KENNETH V. HUDELSON
JOHN P. FLYNN
ROLAND GUIDRY
WILLIAM F. OSLER
PAUL E. CARPENTER
MERRITT W. OLSON
KEN LINDER
ROBERT E. LYDON W3REL
WILLIAM K. MABRY, N4QA
JOHN S. RIPPEY
ROBERT S. HARTMAN
DONALD R. PUTNICK
RICHARD S. MCKEE, KC8AON
STEPHEN A. SAGEMAN
RICK MILLER
DONALD L. COLLINSON
JULIO BRITO K6-AVU
KURT A. LUDWIG
PATRICK WINTHEISER
PATRICK E. FREEMAN
ROBERT CASEY
FRANCES J. BRADLEY
M. CLAY JACKSON

TERRY L. NIXON WB0VQP
EDWIN R. KESSLER
BRIAN R. BOWMAN
DANA H. MYERS
ARNIE MACY
RICHARD G. THOMASSON
DONALD E. PULLEN KG4PTE
PAUL A. PASSMAN
ARRL
GEORGE WASHBURN
PAUL GENE HADLEY
MARK SHEFFIELD
THOMAS A. GEIS
BRIAN DAVIS
GILBERTO COMIN
RICHARD J. KRUIS
JOHN ELLIS, NP2B
BRUCE WILKINSON
HANS BRAKOB, K0HB
KEN COUGHLIN
PHYLLISAN WEST
NEIL SCHWANITZ
GREGORY J. SMITH
MICHAEL T. SHELEHEDA
VICTOR GADZIK
LARRY R. FRAVEL
LEROY M. JENNINGS
JEFFREY L. DAVIS, N9AVG
KEN CUBILO
FRANK A. LYNCH
JOHN DEWEY
STEVEN E. MATDA
HAROLD TATE N8FXH
KEVIN MANZER
ROBERT D. MONTGOMERY
FRANK A. TODD, IV, K3EKO
RICK LABANCA
REC NETWORKS - K7REC - RICH EYRE

RM-10521

RICHARD L. TANNEHILL
KENTON E. STURDEVANT
DR. MICHAEL C. TRAHOS REPLY
COMMENTS
ARRL
DONALD L. BYRER
LEROY E. HENDRICKSON
STEVEN E. MATDA, KE4MOB
KENTUCKY MOUNTAINS ARC
OSBORNE
MICHAEL BEATH
CHRIS J. SMITH
JR BYFORD KD5RPU
JAMES A. PIERSON JR. N1SZ
KEN MEYER K9KJM
BJ JENKINS
DANNY L. MUSTEN
TODD RICHARD ELLIS
SUSAN SWIDERSKI
PAUL R. GOODMAN
CHRISTOPHER BRADY
ROBERT S. GORDON
DUANE WHITTINGHAM - N9SSN
ROBERT A. MASTERS
H. ALEX HEDRICK, JR. N8FWL
DONALD L. WILLIAMS JR W4VT
JEFFERY S. GRANTHAM
RICHARD LINDER
DR. EUGENE P. KAISER, Ph.D.
STEVEN KARTY
MARK JAMES MULLINS
JAMES MAROLDA
RON CLUSTER - AC7TK
TRIPP OWENS
GEORGE CERMIN - W5GCJ
JAMES EDWIN WHEDBEE
WALTER B. TURNER
WILLIAM H. CONAWAY W8HNT
JOSEPH S. GOTTLIEB
BLAIR ALPER
STEPHEN MICHAEL KELLAT
DAVID M. EAKINS
DAN M. KIRBY
CHARLES P. LOCKE
JAMES MOGLE - W0JAG
JOE ZOBKIW - WA2UZO
KEVIN L. BARDON
STEPHEN R. YATES - AA5TB
EDWIN G. DOOLEY, JR.
NICKOLAUS E. LEGGETT
MARTIN CAMPBELL KB0HAE
HANS BRAKOB KOHB
WILLIAM HOLCOMB
CHARLES P. ADKINS

BRAD BAKER
E.R. WIRTH
LEWIS R. LONG
PAUL L. WOMBLE
RICK REICHERT - KF4LM
NEIL JESSEN - N6VHF
WILLIAM TOTH
KRIS MRAZ, N5KM
JOHN R. ROBERTS
STEVEN JAMES ROBESON
PAT MARTINI / KI3P
KAMP DAVID
GERALD CARLBURG K5OKE
TOM SHERWOOD
JOHN P. SLATER, JR.
GEORGE SALZMANN
RONALD RUSS
VERNON L. CASH
JAMES P. WELLMAN KC9AHC
GEORGE WASHBURN
JOSEPH R. SEMER
GARY PEARCE
DR. JEFFREY ATWOOD
ROBERT EVINGER
WILLIAM F. GREEN JR.
WAYNE H. THOMPSON
ALLAN KRUGER
JOHN C. BATTLEFIELD
JAMES DAVID HARRIS
BRIAN CATER
THOMAS J. WEIGEL
DANA HOGGATT
MICHAEL JOENS
JERRY OXENDINE
ERNEST HOWARD
JOHN C. LEMAY, JR.
WAYNE C. GREAVES
ROBERT A. DAVISSON
THOMAS H. BUSCH WB8WOR
FRANK A. LYNCH, W4FAL
SCOTT F. MIGALDI - K9PO
PAUL W. CAVNAR
CARL SWANSON, K6CRS
DORAN S. PLATT III
ROBERT A. MOREHOUSE
BOB MORROW
ROBERT D. MONTGOMERY K3BM
MARK W. REISING
JOSEPH P. CASTRO
JACOB LAUSER
MICHAEL JANTZEN
MATTHEW J. CASSARINO
FRANKLIN E. BRODY
REC NETWORKS

RM-10582

ALEX KNIGHT
JAY URISH
MITCHELL H. MONTGOMERY
MARK R. SMITH
WILLIAM DAVID MONTGOMERY
KEITH A. ZERINGUE
HOWARD W. THORNTON
BARRY JOHNSON
JAMES MAROLDA KE4DRN
WILLIAM H. WEINEL III
KENNETH SLOUGH
STEVEN C. GALLAFENT
HELENE FOWLER

JEFFREY L. KELLER
RUSSELL C. BROWN
RICHARD FOWLER
TERRY W. ROCKHOLD
JAMES BEDIENT
BOB LUKASZEWSKI
DARRELL G. GORDON
JOE PETERSON
ROBERT CLUNN
MICHAEL R. HEEBINK
DAVID CRUSAN
RICHARD B. BLANCHARD, JR.,
C. NORMAN YOUNG

RM-10620

DALE E. REICH
DAVID J. MOCK
JOSEPH SPERONI
BRADLEY FARRELL
MELVIN LEHMANN
RICK DUBBS
THORSTEN C. PRUTZ
LARRY W. WHEELER
JOSEPH M. CASEY
CHRISTOPHER THOMAS CASEY
JOHN C. PARKER, K4OAC
JAYSON A. QUILANTAN
GAYLE RUSSELL NORBERG
GEORGE E. HALL
DALE E. REICH
TERRY W. ATKINS
DALE E. REICH - K8AD
TERRY L. WHITE
BRADLEY FARRELL
DALE E. REICH
TOM CRAIG
ROBERT CZEKAJ
DALE E. REICH
WILLIAM J. WILLIAMS, JR.
TIM ISOM
JAMES T. VIELE
D. MICHAEL CEGELSKI
THOMAS N. PARK
LLOYD COLSTON
STEVEN JOACHIM
DALE E. REICH - K8AD
HERBERT SWEET
PAUL S. COURSON, WA3VJB
RICH EYRE, K7REC
DAVID REEDER
JOHN HITE
HOWARD C. BARNES
GEORGE E. BOSWELL
THOMAS N. PARK

A. ROBERT PATZLAFF
KAY W. HARGIS
ROBERT B. STREET
WILBERT A. NUSSELMAN
ROBERT A. SHAFFER JR.
GEORGE E. BOSWELL
DAVID A. ORIENTI
BECKETT, JAMES W.
KYLE A. YOKSH
STUBBE JOHN W.
DAVID R. MAZZA KB9EI
J. DALTON MCCRARY
CRAIG WM. VAGELL
PAUL J. TOTH
ROBERT CERRETO
KENNETH D. HOPPER
HAROLD E. DAVIS, JR.
WILLIAM E. SCHOLTZ, JR.
EDWIN R. KESSLER
THOMAS CHAMBERS
JOHN R. ROBERTS
KEVIN SCHROEDER KD4TOZ
GERALD R. COLVIN
EARL PAAZIG
MICHAEL D. PRICE
WILMER E. HAAS
JOHN G. KUMIEGA
CHARLES COLLIER
JOHN P. SLATER, JR. N4KFT
OLGA KRUGER KC7QMD
FRED E. CAMPBELL W5FAE
PAUL T. MASON
RALSTON CONNELL
KENTON E. STURDEVANT
FRANK TAYLOR SMITH
CHARLES J. SPONAUGLE
WILLIAM EWING, WA0KAQ
RAYMOND E. MIKESELL
PHIL HARTZ

LOUIS F MAAG
RANDY BYNUM
PAUL BRANSZTET
JOSEPH A. RICH
PETRASH, TERRY G
WILLIAM A BELL
MICHAEL E. VOURNAZOS - KC8GOW
PAUL J. GRAZIANI
CHRISTOPHER TODD
JAMES L HALL/KY1H
BRUCE MULTHUP
MILTON NEVRENCAN
STEVE FRAASCH, K0SF
EDMUND C. TYNAN
JOHN P. FLYNN
SCOTT LINDSEY-STEVENS
RAYMOND J. GREEN
WILLIAM D. TAYLOR
PAUL D. FEE
JAMES SLEEMAN
WILLIAM M HOPKINS
ROBERT D. GAGE
JAMES OLSON
JONATHAN YOUMANS
ALLAN KRUGER W7ZK
J. B. EDMONDS
DONALD LAMA
MARK ROTHSTEIN, P E , KC3JV
ARNOLD G. PETERSON
JOHN M. HOYT / W5UGD
LEWIS W BRUCE
FREDERICK H. WAGNER
DANIEL D. BOGLE
JOHN EDWARD BERRY
R. DON MURRAY
ROBERT COCKREAM AB9EE EXTRA
RON D'EAU CLAIRE
WILLIAM DEMAIO
JAMES H. DAVIS
HAROLD F. PFANNENSCHMID
PAUL DROTHLER
JOSEPH W. ACKERMANN
ALLAN KRUGER
FRED K. STENGER
JAY K. BELL
MARK A. SKOWRONSKI
RAYMOND R. PICK
RICHARD ANGELIN
LYNDON SMITH
KENNETH V. HUDELSON ARS K0KEN
DALE REICH
DAVID S. MCCALLUM, W7SAC
GLEN E. HAZEN

ROBERT HALSING
RICHARD D MILLER
EDWARD W. GARDNER, KC2BYA
STEVE DRAGER
EDWARD F MUELLER
J DOUGLAS FERGUSON
MARK HORNINGER
DAVID SALT
WEBSTER D. WILLIAMS
ROBERT R KELLER
WILLIAM A MCKAY
MILTON PENDARVIS
PHYLLISAN WEST
WILLIAM J. ROBERTS
GREGORY B RAUCH
L. D. CARPENTER
ALAN K. UNANGST
GARY STEINBECK
MURRAY GREEN
SCOTTY W. NEUSTADTER
TERRY L. NIXON
ERIC HARLAN CHRISTENSEN, KF4OTN
JOSEPH C. HANNIGAN
KENNETH W. SKINNER
JOSE BERRIOS
JOHNSTON II, TIM E.
BRUCE BRODER
GEORGE D. SCHWAB
MARK RYAN
TOM EVANS
BENJAMIN R. BUNCH KJ7HW
GEORGE B. PEARSE
RAYMOND J. YAKESH K7PIG
DAVID CRUSAN
GLEN EARL ZOOK
STEVEN KARTY
RICHARD P. SULLIVAN
JAMES T. FERRELL N8QOQ
BILL STRICKLAND
BILL GOFF
BARRY B. DIAMOND
WILEY CLARKSON WA5OTR
CHARLES RISTORCELLI
RANDY PERKINSON
THOMAS H. BUSCH WB8WOR
JOHN A. REYNOLDS
CARL R. SWANSON, K6CRS
NATHAN BARGMANN
STEVEN E. MATDA, KE4MOB
WILLIAM HOULNE - WB6BNQ
TIMOTHY S. HAGFORS
STEPHEN MICHAEL KELLAT

RM-10621

ARRL, INC
WILLIAM R. HANSELL
JAKE A. SCHAFFNER
JAYSON A. QUILANTAN
D MICHAEL CEGELSKI
ALLOWAY RICHARD D
NICKOLAUS E LEGGETT
KYLE A YOKSH
STEPHEN J. HORAN
GERALD R. COLVIN
MICHAEL D. PRICE
PAUL T. MASON
RANDY BYNUM

HAROLD C. BACON
RANDALL D.MELTON
HOWARD DEFELICE
SCOTT LINDSEY-STEVENSON
J. B. EDMONDS
DANIEL D. BOGLE
RICHARD D MILLER ARS K1RDM
J DOUGLAS FERGUSON
TERRY L. NIXON
JAMES EDWIN WHEDBEE
JUSTIN COX
REICH, DALE E. K8AD
STEPHEN MICHAEL KELLAT

APPENDIX C RULE CHANGES

Chapter 1 of Title 47 of the Code of Federal Regulations is amended as follows:

PART 0 – Commission Organization

The authority citation for part 0 continues to read as follows:

AUTHORITY: Sec. 5, 48 Stat. 1068, as amended; 47 U.S.C. 155, 225, unless otherwise noted.

1. Section 0.131 is amended by revising paragraph (n) to read as follows:

§ 0.131 Functions of the Bureau.

* * * * *

(n) Administers the Commission's amateur radio programs (part 97 of this chapter) and the issuing of maritime mobile service identities (MMSIs).

* * * * *

Part 97 - Amateur Radio Service

The authority citation for part 97 continues to read as follows:

AUTHORITY: 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply 48 Stat. 1064-1068, 1081-1105, as amended; 47 U.S.C. 151-155, 301-609, unless otherwise noted.

1. Section 97.3 is amended by revising paragraph (a)(1) and by removing and reserving paragraph (a)(17) to read as follows:

§ 97.3 Definitions.

(a) * * *

(1) Amateur operator. A person named in an amateur operator/primary license station grant on the ULS consolidated licensee database to be the control operator of an amateur station.

* * * * *

2. Section 97.109 is amended by revising paragraph (d) and removing paragraph (e) to read as follows:

§ 97.109 Station control.

* * * * *

(d) When a station is being automatically controlled, the control operator need not be at the control point. Only stations specifically designated elsewhere in this part may be automatically controlled. Automatic control must cease upon notification by a District Director that the station is transmitting improperly or causing harmful interference to other stations. Automatic control must not be resumed without prior approval of the District Director.

* * * *

3 Section 97.203(h) is redesignated as Section 97.205(h).

4. Section 97.307 is amended by revising paragraph (d) to read as follows:

§ 97.307 Emission standards.

* * * * *

(d) For transmitters installed after January 1, 2003, the mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz must be at least 43 dB below the mean power of the fundamental emission. For transmitters installed on or before January 1, 2003, the mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz must not exceed 50 mW and must be at least 40 dB below the mean power of the fundamental emission. For a transmitter of mean power less than 5 W installed on or before January 1, 2003, the attenuation must be at least 30 dB. A transmitter built before April 15, 1977, or first marketed before January 1, 1978, is exempt from this requirement.

* * * * *

5. Section 97.505 is amended by revising paragraph (a)(9) to read as follows:

§ 97.505 Element credit.

(a) * * *

(9) An expired FCC-issued Technician Class operator license document granted before February 14, 1991: Element 1.

* * * * *

6. Section 97.507 is amended by revising paragraph (a)(2) to read as follows:

§ 97.507 Preparing an examination.

(a) * * *

(2) Elements 1 and 2: Advanced or General Class operators.

* * * * *